

FEB 12 2001

Sheet 1 of 2

FORM PTO-1449  
(REV. 6-89)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeAttorney's Docket No.  
21816-04461Serial No.  
09/611,837

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant  
Pawan Goyal et al.Filing Date  
July 7, 2000Group Art Unit  
276

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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
SL	A 6 0 7 5 9 3 8	06/13/00	Bugnion et al.	395	500.48	06/10/98

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Document Number	Date	Country	Class	Subclass	Translation
					Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

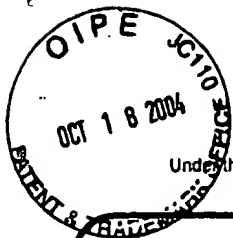
SL	B	Keshav, S., <i>An Engineering Approach to Computer Networking: ATM Networks, the Internet, and the Telephone Network</i> , Reading, MA, Addison-Wesley, 1997, pp vii-xi, 85-115, 209-355, 395-444
SL	C	Stevens, R. W., <i>UNIX Network Programming Volume 1 Networking APIs: Sockets and XTI</i> , Upper Saddle River, NJ, Prentice Hall, 1998, pp v-xiv, 29-53, 85-110, 727-760
SL	D	Tanenbaum, A. S. and Woodhull, A. S., <i>Operating Systems: Design and Implementation</i> , Upper Saddle River, NJ, Prentice Hall, 1997, pp vii-xiv, 1-46, 401-454
SL	E	Rubini, A., <i>LINUX Device Drivers</i> , Sebastopol, CA, O'Reilly & Associates, Inc., 1998, pp v-x, 13-40
SL	F	Goyal, P., et al., "A Hierarchical CPU Scheduler for Multimedia Operating Systems," <i>Proceedings of the Second Symposium on Operating Systems Design and Implementations (OSDI'96)</i> , Seattle, WA, October 1996, 15 pages
SL	G	Laurie, B. and Laurie, P., <i>Apache The Definitive Guide</i> , Sebastopol, CA, O'Reilly & Associates, Inc., February 1999, pp v-viii, 43-74
SL	H	Aho, A. V. and Ullman J. D., <i>Principles of Compiler Design</i> , Reading, MA, 1977, pp vii-x, 359-362, 519-522
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SL	J	Rusling, D. A., Processes, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: <a href="http://www.cebaf.gov/~saw/linux/tlk-html/node44.html">http://www.cebaf.gov/~saw/linux/tlk-html/node44.html</a> >
SL	K	Rusling, D. A., Linux Processes, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: <a href="http://www.cebaf.gov/~saw/linux/tlk-html/node45.html">http://www.cebaf.gov/~saw/linux/tlk-html/node45.html</a> >
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SL	M	Rusling, D. A., Scheduling, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: <a href="http://www.cebaf.gov/~saw/linux/tlk-html/node47.html">http://www.cebaf.gov/~saw/linux/tlk-html/node47.html</a> >
SL	N	Rusling, D. A., Scheduling in Multiprocessor Systems, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: <a href="http://www.cebaf.gov/~saw/linux/tlk-html/node48.html">http://www.cebaf.gov/~saw/linux/tlk-html/node48.html</a> >
SL	O	Rusling, D. A., Files, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: <a href="http://www.cebaf.gov/~saw/linux/tlk-html/node49.html">http://www.cebaf.gov/~saw/linux/tlk-html/node49.html</a> >

EXAMINER

DATE CONSIDERED

01/21/2004

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT****Complete if Known**

Application No.	09/611,877
Filing Date	07/07/2000
First Named Inventor	Pawan Goyal
Art Unit	2128
Examiner Name	Sunray Chang
Attorney Docket Number	21816-04461

Sheet	1	of	1
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document No. Number - Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-2003/0061338A1	03-2003	Stelliga, Tony
		US-5,189,667A	02-1993	Esaki et al.
		US-5,623,492A	04-1997	Teraslinna, Kari
		US-5,838,686A	11-1998	Ozkan, Mehmet Kemal
		US-5,889,956A	03-1999	Hauser et al.
		US-5,982,748A	11-1999	Yin et al.
		US-6,259,699B1	07-2001	Opalka et al.
		US-6,442,164B1	08-2002	Wu, Guoliang

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>

**OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>6</sup>

Examiner Signature		Date Considered	11/25/05
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

21816/04461/DOCS/1472907.1

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT****Complete if Known**

Application No.	09/611,877
Filing Date	07/07/2000
First Named Inventor	Pawan Goyal
Art Unit	2121
Examiner Name	Sunray Chang
Attorney Docket Number	21816-04461

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of

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**U.S. PATENT DOCUMENTS**


Examiner Initials*	Cite No.	Document No. Number – Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
E		US-6,370,583B1	04-09-2002	Fishler et al.

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>

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Examiner Signature		Date Considered	1/25/2005
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21816/04461/DOCS/1485400.1

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application No.	09/611.877
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<b>Filing Date</b>	July 7, 2000
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First Named Inventor	Pawan Goyal
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Art Unit	2121
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Examiner Name	Sunray Chang
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Attorney Docket Number	21816-04461
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## U.S. PATENT DOCUMENTS


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## FOREIGN PATENT DOCUMENTS

		Foreign Patent Document			
Examiner -Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup> - Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
		JP 64-002145	01-06-1989	Masato	

#### OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>o</sup>

Examiner Signature		Date Considered	3/10/2008
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

21816/04467/DOCS/1501812.1

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Substitute for form 1448/APTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application No.	09/611,877
				Filing Date	07/07/2000
				First Named Inventor	Pawan Goyal
				Art Unit	2128
				Examiner Name	Sunray Chang
Sheet	1	of	1	Attorney Docket Number	21816-04461

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.	Document No. Number - Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
(S)		US-2003/0061338A1	03-2003	Stelliga, Tony
		US-5,189,667A	02-1993	Esaki et al.
		US-5,623,492A	04-1997	Teraslinna, Kari
		US-5,838,686A	11-1998	Ozkan, Mehmet Kemal
		US-5,889,956A	03-1999	Hauser et al.
		US-5,982,748A	11-1999	Yin et al.
		US-6,259,699B1	07-2001	Opalka et al.
(S)		US-6,442,164B1	08-2002	Wu, Guoliang.

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	(Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published)		

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21816/04461/DOCS/1472907.1

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Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application No.	09/611,877
				Filing Date	July 7, 2000
				First Named Inventor	Pawan Goyal
				Art Unit	2123
				Examiner Name	Kevin Teska
Sheet	2	of	2	Attorney Docket Number	21816-04461

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document No. Number - Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
E	Z	US-6,055,817	04-25-2000	Kingsbury
	AA	US-6,038,609	03-14-2000	Geulen
	BB	US-6,038,608	03-14-2000	Katsumanta
	CC	US-5,999,963	12-07-1999	Bruno et al.
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	GG	US-5,905,859	05-18-1999	Holloway, et al.
	HH	US-5,799,173	08-25-1998	Gossler et al.
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E	JJ	US-5,640,595	06-17-1997	Baughner et al.

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published		
E	KK	Symbol Table, [online] copyright 1997, 1998, (Retrieved on April 4, 2003) Retrieved from the internet < URL: <a href="http://216.239.33.100/search?q=cache:eASXk8qC_-AC:www.caldera.com/developers/gabi/1998-04-29/ch4.s...">http://216.239.33.100/search?q=cache:eASXk8qC_-AC:www.caldera.com/developers/gabi/1998-04-29/ch4.s...</a> ], Pages 1-5		

Examiner Signature		Date Considered	03/10/2005
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

21816/04461/DOCS/1366003.1

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application No.	09/611,877
				Filing Date	July 7, 2000
				First Named Inventor	Pawan Goyal
				Art Unit	2123
				Examiner Name	Kevin Teska
				Attorney Docket Number	21816-04461
Sheet	1	of	2		

U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Document No. Number - Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A	US-6,553,413	04-22-2003	Leighton et al.
	B	US-6,529,950	03-04-2003	Lumelsky et al.
	C	US-6,499,137	12-24-2002	Hunt
	D	US-6,487,578	11-29-2002	Ranganathan
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	F	US-6,385,638	05-07-2002	Baker-Harvey
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	I	US-6,351,775	02-26-2002	Yu
	J	US-6,336,138	01-01-2002	Caswell et al.
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	N	US-6,282,703	08-28-2001	Meth et al.
	O	US-6,279,040	08-21-2001	Ma et al.
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	Q	US-6,247,057	06-12-2001	Barrera
	R	US-6,240,463	05-29-2001	Benmohamed et al.
	S	US-6,230,203	05-08-2001	Koperda et al.
	T	US-6,172,981	01-09-2001	Cox et al.
	U	US-6,154,778	11-28-2000	Koistinen et al.
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	X	US-6,094,674	07-25-2000	Hattori, et al.
	Y	US-6,092,178	07-18-2000	Jindal et al.

Examiner Signature		Date Considered	03/10/2005
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21816/04461/DOCS/1366003.1

Sheet 2 of 2

<b>FORM PTO-1449</b> (REV. 6-89)		<b>U.S. DEPARTMENT OF COMMERCE</b> Patent and Trademark Office		<b>Attorney's Docket No.</b> 21816-04461		<b>Serial No.</b> 09/611,877	
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)				<b>Applicant</b> Pawan Goyal et al.		<b>Group Art Unit</b> 2763	
<b>U.S. PATENT DOCUMENTS</b>							
<b>Examiner Initial</b>		<b>Document Number</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Subclass</b>	<b>Filing Date if Appropriate</b>
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>Document Number</b>	<b>Date</b>	<b>Country</b>	<b>Class</b>	<b>Subclass</b>	<b>Translation</b> Yes No
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
	P	Plummer, D. C., <i>An Ethernet Address Resolution Protocol - or - Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware</i> , November 1982, [online], [retrieved on 1-17-2000]. Retrieved from the Internet: <URL: <a href="http://www.msg.net/kadow/answers/extras/rfc/rfc826.txt">http://www.msg.net/kadow/answers/extras/rfc/rfc826.txt</a> >					
	Q	Huang, X. W. et al., "The ENTRAPID Protocol Development Environment," <i>Proceedings of IEEE Infocom'99</i> , March 1999, nine pages					
	R	Duffield, N.G., et al., "A Flexible Model for Resource Management in Virtual Private Networks," <i>Computer Communication Review Conference, Computer Communication, ACM SIGCOMM '99 Conference</i> , Cambridge, MA, 8/30/99-9/3/99. pp 95-108					
	S	Campbell, A. T. and Keshav, S., "Quality of Service in Distributed Systems," <i>Computer Communications</i> 21, 1998, pp 291-293					
	T	Bach, M. J., <i>The Design of the Unix® Operating System</i> , New Delhi, Prentice-Hall of India, 1989, pp v-x, 19-37					
	U	McDougall, R., et al., <i>Resource Management</i> , Upper Saddle River, NJ, Prentice Hall, 1999, pp iii-xxx, 135-191					
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<b>EXAMINER</b>		<b>DATE CONSIDERED</b> 03/10/2005					
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	Attorney's Docket No. 21816-04461	Serial No. 09/611,877
	Applicant Pawan Goyal et al.	
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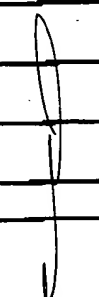
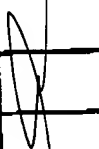


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